

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P475639

Luminaire Tested: **24GR-LD5-150-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475639
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-150-F125-UNV-L850-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15383.2 lumens
Efficiency: N/A
Efficacy: 148.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

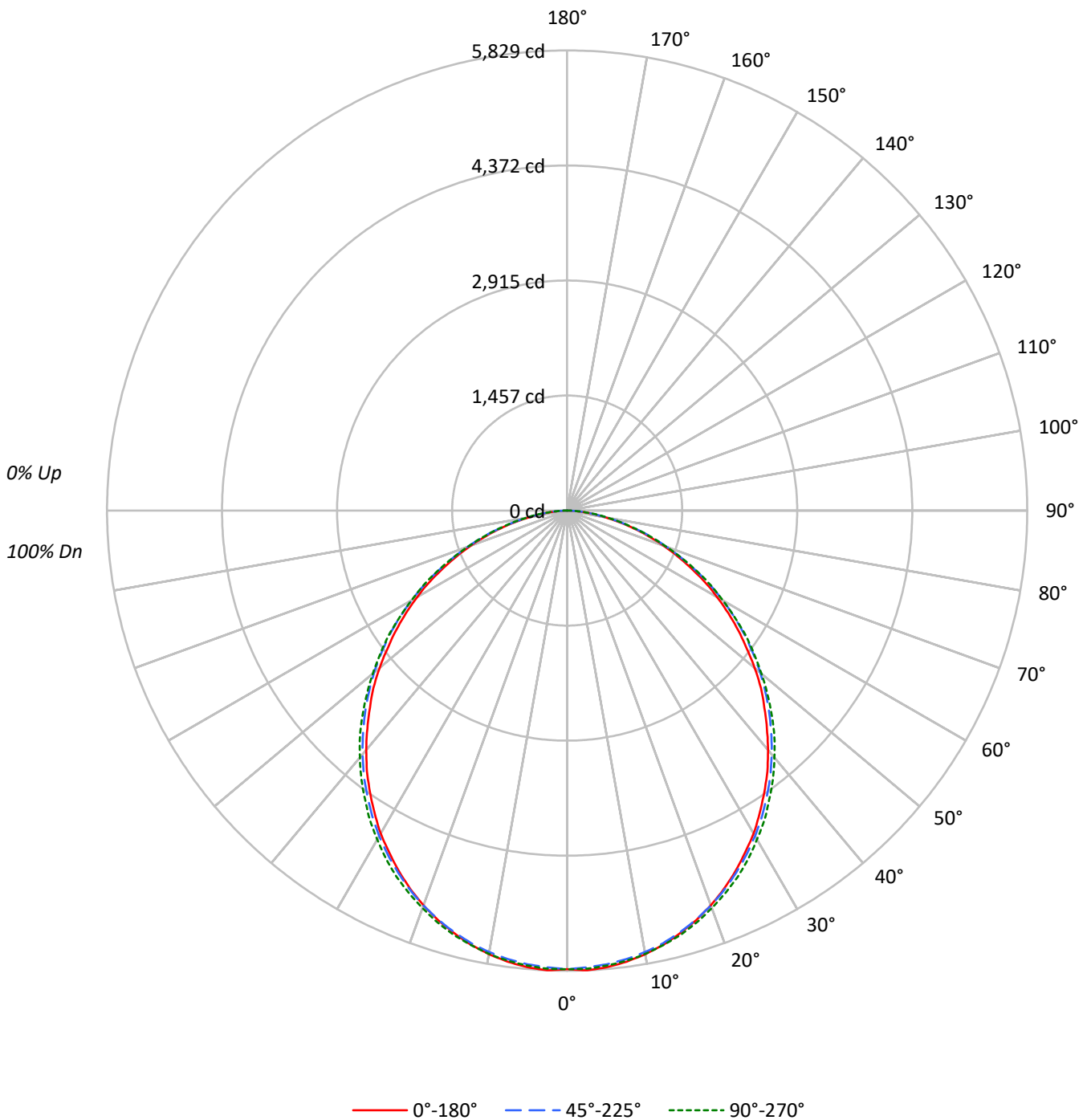
Input Watts (W): 103.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7817	7817	7817
5°	7841	7791	7814
10°	7796	7758	7791
15°	7718	7701	7749
20°	7619	7622	7673
25°	7487	7517	7596
30°	7340	7396	7473
35°	7152	7249	7334
40°	6955	7081	7174
45°	6725	6890	6977
50°	6491	6681	6727
55°	6210	6434	6480
60°	5913	6115	6122
65°	5525	5739	5769
70°	5118	5262	5245
75°	4547	4710	4724
80°	3804	3939	4088
85°	2854	3069	3177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.9	3.6
10°-20°	1561.7	10.2
20°-30°	2334.5	15.2
30°-40°	2758.1	17.9
40°-50°	2784.3	18.1
50°-60°	2429.8	15.8
60°-70°	1771.4	11.5
70°-80°	955.3	6.2
80°-90°	239.1	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4445.1	28.9
0°-40°	7203.2	46.8
0°-60°	12417.3	80.7
0°-90°	15383.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15383.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5810	5810	5810	5810	5810	
5°	5805	5784	5768	5774	5785	551
15°	5541	5530	5529	5542	5563	1562
25°	5043	5044	5063	5095	5116	2322
35°	4354	4366	4413	4456	4465	2724
45°	3534	3560	3621	3666	3667	2729
55°	2648	2680	2743	2753	2763	2366
65°	1735	1773	1802	1806	1812	1724
75°	875	883	906	910	909	929
85°	185	189	199	208	206	225
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5809.5	5809.5	5809.5	5809.5	5809.5
2.5°	5828.7	5807.8	5791.2	5794.7	5808.7
5°	5805.2	5784.2	5768.5	5773.8	5785.1
7.5°	5763.3	5744.1	5731.9	5737.1	5752.0
10°	5705.8	5690.1	5678.7	5686.6	5702.3
12.5°	5632.5	5616.8	5612.4	5623.8	5637.7
15°	5540.9	5529.6	5528.7	5541.8	5562.7
17.5°	5438.0	5426.7	5432.8	5450.2	5468.6
20°	5321.2	5310.7	5322.9	5346.5	5358.7
22.5°	5187.8	5179.0	5200.8	5225.3	5241.0
25°	5043.0	5043.9	5063.1	5095.3	5116.3
27.5°	4882.5	4888.7	4917.4	4948.8	4969.8
30°	4724.7	4719.5	4760.5	4794.5	4810.2
32.5°	4541.6	4544.2	4592.2	4627.0	4650.6
35°	4354.1	4366.3	4413.4	4456.1	4464.8
37.5°	4164.9	4173.6	4230.3	4272.1	4283.5
40°	3959.9	3975.6	4031.4	4070.7	4084.6
42.5°	3746.3	3766.3	3826.5	3867.5	3885.8
45°	3534.4	3559.7	3620.7	3666.1	3666.9
47.5°	3329.4	3347.8	3407.1	3447.2	3442.8
50°	3101.0	3128.0	3191.7	3216.1	3213.5
52.5°	2867.3	2908.3	2966.7	2985.9	2983.2
55°	2647.5	2679.8	2742.6	2753.0	2762.6
57.5°	2419.9	2447.8	2515.8	2520.2	2518.4
60°	2197.5	2222.8	2272.5	2284.7	2275.1
62.5°	1973.4	1998.7	2043.2	2055.4	2053.7
65°	1735.4	1772.9	1802.5	1806.0	1812.1
67.5°	1513.9	1537.4	1566.2	1571.4	1567.1
70°	1301.1	1321.1	1337.7	1341.2	1333.3
72.5°	1081.3	1099.6	1123.2	1127.5	1118.8
75°	874.7	883.4	906.0	909.5	908.7
77.5°	674.1	681.1	697.6	710.7	712.5
80°	491.0	493.6	508.4	518.0	527.6
82.5°	325.3	332.2	343.6	353.2	361.9
85°	184.9	189.2	198.8	208.4	205.8
87.5°	71.5	81.1	82.0	91.6	95.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)